

## **Walden Green Science Curriculum/Standards:**

Research shows that the best way to learn science is by doing science. Walden Green Montessori implements the FOSS Next Generation curriculum, developed at the [Lawrence Hall of Science](#).

**FOSS Next Generation** puts the Next Generation Science Standards (NGSS) into practice by integrating all three dimensions: the **Disciplinary Core Ideas**, the **Science and Engineering Practices**, and the **Crosscutting Concepts**, all within classroom-proven tools and strategies to engage students and teachers in enduring experiences that lead to deeper understanding of the natural and designed world.

### **FOSS Next Generation:**

- **Engages all students with meaningful active learning experiences**
- **Prepares all students to succeed with the NGSS performance expectations**
- **Integrates robust reading and literacy strategies to support the Common Core ELA for all students**
- **Utilizes technology to deliver learning experiences and provide teachers with time-saving classroom management resources**

### **K-8 Scope and Sequence**

Research shows that an instructional model that delivers fewer science concepts in greater depth produces much better learning than one in which many topics are briefly visited. **FOSS Next Generation** is designed to help Walden Green students, over years, develop more sophisticated ways to think about the core ideas of science. Modules are truly connected and build upon one another within and across each strand, progressively moving students toward the big ideas of science

GRADE	PHYSICAL SCIENCE	EARTH SCIENCE	LIFE SCIENCE
6-8	Gravity and Kinetic Energy* Waves*	Planetary Science <sup>2</sup>	Human Systems Interactions* Heredity and Adaptation*
	Chemical Interactions <sup>2</sup>	Earth History	Populations and Ecosystems <sup>2</sup>
	Electromagnetic Force* Variables and Design <sup>*3</sup>	Weather and Water	Diversity of Life
5	Mixtures and Solutions	Earth and Sun	Living Systems
4	Energy	Soils, Rocks, and Landforms	Environments
3	Motion and Matter	Water and Climate	Structures of Life
2	Solids and Liquids	Pebbles, Sand and Silt	Insects and Plants
1	Sound and Light	Air and Weather	Plants and Animals
K	Materials and Motion	Trees and Weather	Animals Two by Two

*\*Half-length course*